

CLAIMS:

1. A lamp (1, 21, 32) with a bulb (5, 6, 23, 24, 35) that generates visible light and infrared light, characterized in that the bulb (5, 23, 35) is provided with a coating (8) that reflects middle infrared radiation and is transparent to near infrared radiation.

5 2. A lamp as claimed in claim 1, characterized in that the bulb (5, 23, 35) has an elliptical shape.

3. A lamp as claimed in claim 1, characterized in that the coating (8) has an interference coating with 37 individual layers of Nb₂O₅ and SiO₂.

10

4. A lamp as claimed in claim 1 and/or 2, characterized in that the bulb (5, 23, 35) is provided with a coating (10) that eliminates visible light.

5. A lamp as claimed in claim 1 and/or 2, characterized in that the bulb (5, 23,
15 35) is surrounded by an external bulb (6, 24) having a coating (10) that eliminates visible light.

6. A lamp as claimed in claim 4 or 5, characterized in that the coating (10) comprises Fe₂O₃ and SiO₂ layers.

20

7. A lamp as claimed in claim 4, 5 and/or 6, characterized in that the coating (10) is arranged in a lower area (26) of the bulb.

25 8. A headlamp (21, 22) with a lamp (1, 21, 32) as claimed in one or more of the preceding claims 1 – 7.

9. A headlamp (31) with a reflector (34) and a lamp (32) as claimed in one or more of the preceding claims 1 – 3, characterized in that a lower reflector segment (39) is

provided with a coating (40) which reflects near infrared radiation and which is transparent to visible light.